

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.

CS
cont

the first section comprising about 15% or more and about 45% or less of the dot area.

REMARKS

Claims 30, 31, 33-41 and 44-67 are pending. Claims 34-36, 39-41 and 44-48 have previously been withdrawn from consideration. By this Amendment, claims 34, 35, 37, 39, 56, 61 and 62 are amended.

Applicants gratefully acknowledge that the Office Action indicates that claims 30, 31, 33, 49-55, 59 and 63 are allowed. Applicants submit that at least allowed claim 30 is a generic claim. Thus, at this point in the prosecution, withdrawn claims 34-36, 39-41 and 44-48 should be rejoined and considered.

The attached Appendix includes marked-up copies of each rewritten claim (37 C.F.R. §1.121(c)(1)(ii)).

Reconsideration based on the following remarks is respectfully requested.

I. The Claims Define Patentable Subject Matter

The May 21, 2002 Office Action rejects claims 37, 56-58, 60-62 and 64-67 under 35 U.S.C. §103(a) over Ohgawara et al. (U.S. Patent No. 5,365,357). This rejection is respectfully traversed.

Ohgawara does not disclose or suggest a liquid crystal display including, inter alia, a plurality of dot areas arranged in a matrix form, each of the dot areas including a first section and a second section, and a color filter arranged in the first section, as recited in claim 37, and as similarly recited in claims 56, 61 and 62.

One object of the invention is to improve reflectivity to obtain a bright display by providing a transparent layer to a color filter in a portion of a dot display area that contributes a reflective display. This solves the problem of the display becoming dark due to high chromatic density and decrease in reflectivity when observing the reflective display. Thus, the invention provides a liquid crystal display that enables the reflective display by providing

a reflector, wherein a transparent layer is provided on a color filter arranged on the reflector. That is, a portion is provided that does not color light reflected by the reflector.

In Ohgawara, the dot area is not provided with two sections. Instead, in the dot area, an over coating film formed of polyimide and a color filter are laminated.

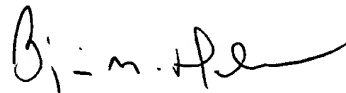
For at least these reasons, it is respectfully submitted that claims 34, 37, 39, 41, 44, 56, 61 and 62 are patentable over Ohgawara. The dependent claims are likewise patentable over Ohgawara for at least the reasons discussed as well as for the additional features they recite. Applicants respectfully request that the rejection under 35 U.S.C. §103 be withdrawn.

II. Conclusion

In view of the foregoing, Applicants respectfully submit that this application is in condition for allowance. Favorable consideration and prompt allowance are earnestly solicited.

Should the Examiner believe anything further is desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact Applicants' undersigned representative at the telephone number listed below.

Respectfully submitted,



James A. Oliff
Registration No. 27,075

Benjamin M. Halpern
Registration No. 46,494

JAO:BMH/cfr

Attachment:
Appendix

Date: November 21, 2002

OLIFF & BERRIDGE, PLC
P.O. Box 19928
Alexandria, Virginia 22320
Telephone: (703) 836-6400

<p>DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461</p>

APPENDIX

Changes to Claims:

The following is a marked-up version of the amended claims:

34. (Amended) A liquid crystal display, comprising:

a first electrode;

a second electrode opposing the first electrode;

a plurality of dots formed at overlapping portions of the first electrode and the second electrode;

a reflector arranged outside the first electrode and the second electrode; and

a plurality of color filters, a color filter being arranged to correspond to each of the plurality of dots, wherein individual dots includes an area having a color filter and an area having no color filter, and each color filter being separated from adjacent color filters by an area having no color filter.

35. (Amended) The liquid crystal display according to claim 34, each ~~dot comprising a first color filter section~~ located at a central portion of the dot.

37. (Twice Amended) A liquid crystal display comprising:

a first electrode;

a second electrode opposing the first electrode;

a plurality of dot areas arranged in a matrix form~~dot area, formed~~ at an overlapping portion of the first electrode and second electrode, for display, wherein each of the dot area~~areas~~ includes a first section and a second section;

a reflector arranged outside the first electrode and the second electrode~~behind the dot area;~~

a color filter arranged in the first section; and

a layer arranged in the second section, and being substantially transparent.

39. (Amended) A liquid crystal display, comprising:

a first electrode;

a second electrode opposing the first electrode;

a plurality of dots formed at overlapping portions of the first electrode and second electrode;

a reflector arrangement outside the first electrode and the second electrode;

and

a plurality of color filters, a color filter being arranged to correspond to each of the plurality of dots, wherein individual dots includes an area having a color filter and an area having no color filter, each color filter being separated from adjacent color filters by an area having no color filter, and a substantially transparent layer being arranged to correspond to the area having no color filter.

56. (Twice Amended) A liquid crystal device comprising:

a first electrode;

a second electrode opposing the first electrode;

~~a liquid crystal material provided between the first and the second electrode;~~

a plurality of dot areas arranged in a matrix form, formed at an overlapping portion of the first electrode and second electrode, for display, wherein each of the dot areas includes a first section and a second section;

~~a color filter positioned between the liquid crystal material and one of the first and the second electrode;~~ a reflector arranged outside of the first electrode and the second electrode and

~~wherein the a color filter is selectively arranged in the first section dot area.~~

61. (Amended) A liquid crystal device comprising:

a first electrode;

a second electrode opposing the first electrode;
a plurality of dot area areas arranged in a matrix form, ~~formed~~ at an overlapping portion of the first electrode and second electrode, wherein each of the dot areas includes a first section and a second section;
a reflector arranged outside the first electrode and the second electrode ~~behind the dot area~~; and
a color filter arranged in the first section ~~dot area~~, wherein the size of the color filter is smaller than that of the dot area.

62. (Amended) A liquid crystal device comprising:
a first electrode;
a second electrode opposing the first electrode;
a plurality of dot area areas arranged in a matrix form ~~formed~~ at an overlapping portion of the first electrode and second electrode, each of the dot area areas including a first section and a second section; ~~and~~
a reflector arranged outside of the first electrode and the second electrode; ~~and~~
a color filter arranged in the first section;;
the first section comprising about 15% or more and about 45% or less of the dot area.